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Path sharing and predicate evaluation for high-performance XML filtering

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Y Diao, M Altinel, MJ Franklin, H Zhang, P ... - ACM Transactions on ..., 2003 - portal.acm.org
... highly skewed, with a small number of very long candidate lists that do not provide much **selectivity**. ...
As experi- mental results in Altinel and Franklin [2000] show, this additional **cost** is far outweighed ...
a document arrives at the filtering en- gine, it is run through an **XML** Parser that ...
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Efficient processing of XML twig queries with OR-predicates

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H Jiang, H Lu, W Wang - Proceedings of the 2004 ACM SIGMOD ..., 2004 - portal.acm.org
... indexes can significantly improve the performance for matching twig queries with OR-**predicates**,
especially when ... can evaluate query Q2 as two separate AND-twigs: /dblp/paper[title='**XML**']//author
/dblp ... we may scan same data multiple times, incurring more I/O and CPU **cost**. ...
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... that might satisfy those **predicates**; that is, nodes satisfying the individual **predicates** must descend ...
Fanout is used in conjunction with the traditional notion of **selectivity** in determining the ... Statistics
collection" describes the set of statistics used to make **XML cost** and cardinality ...
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Benefits of path summaries in an XML query optimizer supporting multiple access methods

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... The advantage of using this strategy occurs in the case of selective **predicates** on one of the ...
However, in the **XML** query c summaries can be used not only existing schemas for a ... The latter
optimization str data statistics and (simple) **cost**-based h order to compute an efficient plan ...
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Approximate XML query answers

psu.edu [PDF]

N Polyzotis, M Garofalakis, Y Ioannidis - Proceedings of the 2004 ..., 2004 - portal.acm.org
... Generating approximate answers is a **cost**-effective solution for offsetting the high evaluation
cost of **XML** queries. ... Note that the problem of effi- cient **XML** summarization also arises in the
context of **selectivity** estimation, where the synopsis is only used to estimate the size ...
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Cost modeling and estimation for OLAP-XML federations

D Pedersen, K Riis, T Pedersen - Data Warehousing and Knowledge ..., 2002 - Springer
... The query evaluation time will depend eg on the aggregation level and **selectivity** of any selections
in a query. ... The **cost** formula distinguishes between two types of **XML** query results: Those that
have been inlined in some **predicate** and those that have not been inlined in ...
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FleXPath: flexible structure and full-text querying for XML

S Amer-Yahia, LVS Lakshmanan, S ... - Proceedings of the 2004 ..., 2004 - portal.acm.org
... Q1 by relax- ing the contains($3, "**XML**" and "streaming") to contains($2, "**XML**" and "streaming"). ...
We could replace value-based pred- icates, eg, $i.price ≤ 98 with $i.price ≤ 100. We could also
relax the contains **predicate** by making use of thesauri and replacing keywords with ...
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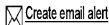
Query processing for high-volume XML message brokering

Y Diao, M Franklin - ... of the 29th international conference on Very ..., 2003 - portal.acm.org
... the extension of these paths does not add signifi- cantly to their processing **cost**. ... section> <section>
<figure> <title> **XML** processing </title> </figure> </section> <figure> <title> **XML** process- ing ...
title> </figure> </section>" In this case, the stream for the **predicate** path "//section ...
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StatiX: making XML count

J Freire, JR Haritsa, M Ramanath, P Roy, ... - Proceedings of the ..., 2002 - portal.acm.org
... Histograms are attractive because they are simple to implement, have been well- studied, and
proven to be effective for **selectivity** estimation [18, 19]. ... Figure 5: Transformed Schema and
Associated Statistics discuss in Section 4, in **cost**-based **XML** storage design, transfor ...
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Design and evaluation of alternative selection placement strategies in optimizing continuous queries

J Chen, DJ DeWitt, JF Naughton - icde, 2002 - computer.org
... R,S **XML** files ΔR, ΔS delta files for R, S |R|, |S| number of pages in R, S, assuming |R| = |S| 300
||R||, ||S ... Cc CPU **cost** of evaluating a **predicate** (ms) 0.36ms ... γ i the **selectivity** of a selection **predicate**
γ u **selectivity** of the union of all selection **predicates** in a selection signature 0.8 ...
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... highly skewed, with a small number of very long candidate lists that do not provide much **selectivity**. ...
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A Barta, MP Consens, AO Mendelzon - Proceedings of the 31st ..., 2005 - portal.acm.org
... The advantage of using this strategy occurs in the case of selective **predicates** on one ... follows:
using **path** summaries, simple sta simple **cost**-based heuristics we can achieve s the ... DataGuides
[14] (the **path** summ in Lore) are essentially the same struct considering **XML trees**). ...
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Bloom histogram: Path selectivity estimation for xml data with updates   psu.edu [PDF]
W Wang, H Jiang, H Lu, JX Yu - ... on Very large data bases-Volume ..., 2004 - portal.acm.org
... A bad es- timate may mislead the query optimizer to choose a bad plan, whose **cost** could be
orders of magni- tude higher. ... We present the basic structure of a bloom histogram, and the
algorithms to estimate the **selectivity** of **XML path** expressions using bloom histograms. ...
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Efficient processing of XML twig queries with OR-predicates   psu.edu [PDF]
H Jiang, H Lu, W Wang - Proceedings of the 2004 ACM SIGMOD ..., 2004 - portal.acm.org
... decomposition-based approach has a serious disadvantage: we may scan same data multiple
times, incurring more I/O and CPU **cost**. ... n3: /title n4: /year n5: //author '**XML**' 2003 ... Definition 2.
[OR-predicate] Given a query **tree** Q, an OR-**predicate** is a subtree in Q such that the root ...
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Statistical learning techniques for costing XML queries   psu.edu [PDF]
N Zhang, PJ Haas, V Josifovski, GM ... - Proceedings of the ..., 2005 - portal.acm.org
... This behavior makes the **cost** modeling of XNav highly challenging. ... An **XML** element matches
a parse-**tree** node if (1) the element name matches the node label, (2) the element value satisfies
the value constraints if the node is also a **predicate tree** node, and (3) the element ...
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... Histograms are attractive because they are simple to implement, have been well- studied, and proven to be effective for **selectivity** estimation [18, 19]. ... Figure 5: Transformed Schema and Associated Statistics discuss in Section 4, in **cost**-based **XML** storage design, transfor ...

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Approximate XML query answers

N Polyzotis, M Garofalakis, Y Ioannidis - Proceedings of the 2004 ..., 2004 - portal.acm.org

... answers is a **cost**-effective solution for offsetting the high evaluation **cost** of **XML** ... proposed summarization techniques: they enable more accurate approximate answers and **selectivity** estimates, and at ... q0 being a distinguished root node always bound to the **XML** document root ...

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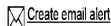
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... that might satisfy those **predicates**; that is, nodes satisfying the individual **predicates** must descend ... Fanout is used in conjunction with the traditional notion of **selectivity** in determining the ... Statistics collection" describes the set of statistics used to make **XML cost** and cardinality ...

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Tree pattern aggregation for scalable XML data dissemination

CY Chan, W Fan, P Felber, M Garofalakis, ... - Proceedings of the ..., 2002 - portal.acm.org

... and LDAP applications [3]. Compared to earlier work based on attribute/**predicate**-based subscrip ... efficient method that exploits coarse statistics on the underlying distribution of **XML** documents to ... ically, our scheme employs the document statistics to estimate the **selectivity** of a ...

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Query caching and view selection for XML databases

B Mandhani, D Suciu - ... of the 31st international conference on Very ..., 2005 - portal.acm.org

... The **selectivity** of our SQL query depends a lot on this choice. ... of locality, the test workload will have overlap with S. We now want to insert views so as to be able to answer the queries in S. The main **cost** in warm-up is that of executing queries on the **XML** database to bring ...

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